

United States Patent [19][11] **3,924,239****Fletcher et al.**[45] **Dec. 2, 1975**[54] **DICHROIC PLATE**

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[57] **ABSTRACT**

A dichroic plate is disclosed for passing radiation within a particular frequency band and reflecting radiation outside of that frequency band. The value of the thickness of the plate is selected so that the plate acts as a resonant narrow band pass filter for the desired pass frequency, and the shapes of the apertures in the dichroic plate are selected to compensate for the phase shift caused by the air-plate interface presented to the signals passing therethrough.

6 Claims, 4 Drawing Figures